

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 04362017
PUBLICATION DATE : 15-12-92

APPLICATION DATE : 06-06-91
APPLICATION NUMBER : 03160848

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INT.CL. : C01G 35/00 C23C 16/40 C30B 29/16 H01L 27/01 H01L 27/04 H03H 3/08

TITLE : FORMATION OF ORIENTED TA₂O₅ THIN FILM

ABSTRACT : PURPOSE: To obtain the dense, homogeneous and highly oriented thin film low in impurities by oxidizing a specified raw gas introduced into a reactor along with an inert carrier gas with an oxidizing agent so as to grow the thin film on a base plate by chemical vapor deposition, etc.

CONSTITUTION: A tantalum alkoxide or ≥1 kind among β-diketone-based metallic complexes are introduced as the gaseous raw material into a reactor along with an inert carrier gas such as argon. The gaseous raw material is oxidized by ≥1 kind of oxidizing agent among O₂, steam, nitrous oxide, etc., to form an oriented Ta₂O₅ thin film on the base plate of Si, etc., by plasma chemical vapor deposition(CVD), photo-CVD, etc.

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